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### 1 [TAOS: Testing with Analysis and Oracle Support](#)

Debra J. Richardson

☒ August 1994 **Proceedings of the 1994 ACM SIGSOFT international symposium on Software testing and analysis**
**Publisher:** ACM Press

 Full text available: ☒ pdf(1.49 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Few would question that software testing is a necessary activity for assuring software quality, yet the typical testing process is a human intensive activity and as such, it is unproductive, error-prone, and often inadequately done. Moreover, testing is seldom given a prominent place in software development or maintenance processes, nor is it an integral part of them. Major productivity and quality enhancements can be achieved by automating the testing process through tool development and u ...

### 2 [Remote interactive visualization and analysis \(RIVA\) using parallel supercomputers](#)

P. Peggy Li, William H. Duquette, David W. Curkendall

☒ December 1995 **Proceedings of the IEEE symposium on Parallel rendering**
**Publisher:** ACM Press

 Full text available: ☒ pdf(9.47 MB)

 Additional Information: [full citation](#), [citations](#), [index terms](#)


**Keywords:** 3-D perspective terrain rendering, feed forward rendering, massively parallel processor, scientific visualization

### 3 [jRapture: A Capture/Replay tool for observation-based testing](#)

John Steven, Pravir Chandra, Bob Fleck, Andy Podgurski

☒ August 2000 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2000 ACM SIGSOFT international symposium on Software testing and analysis ISSTA '00,**

Volume 25 Issue 5

**Publisher:** ACM PressFull text available:  pdf(403.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe the design of jRapture: a tool for capturing and replaying Java program executions in the field. jRapture works with Java binaries (byte code) and any compliant implementation of the Java virtual machine. It employs a lightweight, transparent capture process that permits unobtrusive capture of a Java programs executions. jRapture captures interactions between a Java program and the system, including GUI, file, and console inputs, among other types, and on replay it presents eac ...

**Keywords:** Java, capture/replay, execution profiling, observation-based testing, software testing

4 [Demonstrations \(video\): multimodal, fish eyes & PDAs: The efficiency of multimodal interaction for a map-based task](#)



Philip Cohen, David McGee, Josh Clow

April 2000 **CHI '00 extended abstracts on Human factors in computing systems****Publisher:** ACM PressFull text available:  pdf(225.52 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


This paper compares the efficiency of using a standard direct-manipulation graphical user interface (GUI) with that of using the QuickSet pen/voice multimodal interface for supporting a military task. In this task, a user places military units and control measures (e.g., various types of lines, obstacles, objectives) on a map. Four military personnel designed and entered their own simulation scenarios via both interfaces. Analyses revealed that the multimodal interface led to a 3 to 4-fold speed ...

**Keywords:** graphical user interface, multimodal interaction, spoken language

5 [Formal specification of user interfaces](#)





Christopher Rouff

July 1996 **ACM SIGCHI Bulletin**, Volume 28 Issue 3**Publisher:** ACM PressFull text available:  pdf(778.41 KB) Additional Information: [full citation](#), [index terms](#)

6 [The efficiency of multimodal interaction for a map-based task](#)



Philip Cohen, David McGee, Josh Clow

April 2000 **Proceedings of the sixth conference on Applied natural language processing****Publisher:** Morgan Kaufmann Publishers Inc.Full text available:  pdf(1.02 MB)  Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)  
[Publisher Site](#)

This paper compares the efficiency of using a standard direct-manipulation graphical user

interface (GUI) with that of using the QuickSet pen/voice multimodal interface for supporting a military task. In this task, a user places military units and control measures (e.g., various types of lines, obstacles, objectives) on a map. Four military personnel designed and entered their own simulation scenarios via both interfaces. Analyses revealed that the multimodal interface led to an average 3.5-fold ...

7 Parallel test generation for sequential circuits on general-purpose multiprocessors



Srinivas Patil, Prithviraj Banerjee, Janak H. Patel

June 1991 **Proceedings of the 28th conference on ACM/IEEE design automation**

**Publisher:** ACM Press

Full text available: [pdf\(487.89 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 PELLPACK: a problem-solving environment for PDE-based applications on multicomputer platforms



E. N. Houstis, J. R. Rice, S. Weerawarana, A. C. Catlin, P. Papachiou, K.-Y. Wang, M. Gaitatzes  
March 1998 **ACM Transactions on Mathematical Software (TOMS)**, Volume 24 Issue 1

**Publisher:** ACM Press

Full text available: [pdf\(26.30 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The article presents the software architecture and implementation of the problem-solving environment (PSE) PELLPACK for modeling physical objects described by partial differential equations (PDEs). The scope of this PSE is broad, as PELLPACK incorporates many PDE solving systems, and some of these, in turn, include several specific PDE solving methods. Its coverage for 1D, 2D, and 3D elliptic or parabolic problems is quite broad, and it handles some hyperbolic problems. Since a PSE should p ...

**Keywords:** PDE language, execution models, knowledge bases, libraries, parallel reuse methodologies, problem-solving environments, programming-in-the-large, software bus

9 CartaBlanca—a pure-Java, component-based systems simulation tool for coupled non-linear physics on unstructured grids



W. B. VanderHeyden, E. D. Dendy, N. T. Padial-Collins

June 2001 **Proceedings of the 2001 joint ACM-ISCOPE conference on Java Grande**

**Publisher:** ACM Press





Full text available: [pdf\(924.14 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a component-based non-linear physical system simulation prototyping package written entirely in Java using object-oriented design to provide scientists and engineers a “developer-friendly” software environment for large-scale computational method and physical model development. The software design centers on the Jacobian-Free Newton-Krylov solution method surrounding a finite-volume treatment of conservation equations. This enables a clean component-based impl ...

**Keywords:** Jacobian, Java object oriented, Krylov, Newton, components, parallel, physics, solver, threads

**10** Descriptions of system demonstrations: Two multimodal interfaces to military simulations


Kenneth Wauchope

March 1997 **Proceedings of the fifth conference on Applied natural language processing:****Descriptions of system demonstrations and videos****Publisher:** Morgan Kaufmann Publishers Inc.Full text available:  [pdf\(187.01](#)[KB\)](#) Additional Information: [full citation](#)[Publisher Site](#)**11** Parallel lumigraph reconstruction Peter-Pike Sloan, Charles HansenOctober 1999 **Proceedings of the 1999 IEEE symposium on Parallel visualization and graphics****Publisher:** ACM PressFull text available:  [pdf\(939.98](#) Additional Information: [full citation](#), [abstract](#), [references](#),  
[citations](#), [index terms](#)[KB\)](#)


This paper presents three techniques for reconstructing Lumigraphs/Lightfields on commercial ccNUMA parallel distributed shared memory computers. The first method is a parallel extension of the software-based method proposed in the Lightfield paper. This expands the ray/two-plane intersection test along the film plane, which effectively becomes scan conversion. The second method extends this idea by using a shear/warp factorization that accelerates rendering. The third technique runs on an ...

**12** A Model and a System for Data-Parallel Program Visualization


Thomas A. Wagner, R. Daniel Bergeron

October 1995 **Proceedings of the 6th conference on Visualization '95****Publisher:** IEEE Computer SocietyFull text available:  [pdf\(1.50](#)[MB\)](#) Additional Information: [full citation](#), [abstract](#)[Publisher Site](#)

Parallel program visualization and debugging require new techniques for gathering and displaying execution trace and profile data. Interaction with the program during execution is also required to facilitate parallel debugging. We discuss the difficulties associated with runtime user/program interaction and how the data-parallel programming paradigm facilitates much more liberal runtime interaction than typical MIMD-based models. We present a model for data-parallel program visualization that ad ...


**Keywords:** visualization, parallel languages, SPMD, MIMD, SIMD**13** Application of the Analysis Federate in the Joint Advanced Distributed Simulation Joint Test Force electronic warfare phase II test William S. Murphy, Michael L. RoaneDecember 1999 **Proceedings of the 31st conference on Winter simulation: Simulation---a bridge to the future - Volume 2**

**Publisher:** ACM Press

Full text available:  pdf(98.23 KB)


Additional Information: [full citation](#), [references](#), [index terms](#)

**14** [Preprototyping SIMD coprocessors using virtual machine emulation and trace compilation](#)

 Martin C. Herbordt, Owais Kidwai, Charles C. Weems

June 1997 **ACM SIGMETRICS Performance Evaluation Review**, **Proceedings of the 1997 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '97**, Volume 25 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(2.05 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



The use of massively parallel SIMD array architectures is proliferating in the area of domain specific coprocessors. Even so, they have undergone few systematic empirical studies. The underlying problems include the size of the architecture space, the lack of portability of the test programs, and the inherent complexity of simulating up to hundreds of thousands of processing elements. We address the computational cost problem with a novel approach to trace-based simulation. Code is run on an abs ...

**15** [Exploiting model independence for parallel PCS network simulation](#)

Azzedine Boukerche, Sajal K. Das, Alessandro Fabbri, Oktay Yildiz

May 1999 **Proceedings of the thirteenth workshop on Parallel and distributed simulation**

**Publisher:** IEEE Computer Society

Full text available:  pdf(688.35 KB)  [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


In this paper, we present a parallel simulator (SWiMNet) for PCS networks using a combination of optimistic and conservative paradigms. The proposed methodology exploits event precomputation permitted by model independence within the PCS components. The low percentage of blocked calls is exploited in the channel allocation simulation of precomputed events by means of an optimistic approach. %To illustrate and verify the developed approach, Experiments were conducted with various call arrival rat ...

**16** [SWiMNet: a scalable parallel simulation testbed for wireless and mobile networks](#)

Azzedine Boukerche, Sajal K. Das, Alessandro Fabbri

September 2001 **Wireless Networks**, Volume 7 Issue 5

**Publisher:** Kluwer Academic Publishers

Full text available:  pdf(397.98 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a framework, called SWiMNet, for parallel simulation of wireless and mobile PCS networks, which allows realistic and detailed modeling of mobility, call traffic, and PCS network deployment. SWiMNet is based upon event precomputation and a combination of optimistic and conservative synchronization mechanisms. Event precomputation is the result of model independence within the global PCS network. Low percentage of blocked calls typical for PCS networks is exploited in the channel alloca ...


**Keywords:** PCS network models, framework for PCS network simulation, parallel discrete event simulation, performance analysis

17 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

**Publisher:** IBM Press

Full text available:  pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...


18 Graphical user interface of FIESTA-----software for faults identification and estimation of testability of VLSI circuits



Mykola Blyzniuk, Taras Panchak, Wieslaw Kuzmicz, Witold Pleskacz

February 2000 **Proceedings of the symposium on Contemporary computing in Ukraine**

**Publisher:** ACM Press

Full text available:  pdf(7.00 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

We present the graphical user interface (GUI) of FIESTA software tools. It is based on the proposed principles of open systems development. FIESTA was designed as UNIX application and works under Solaris 2.5.1. Graphical user interface of FIESTA has been developed with the use of Tel/Tk 8.2 design environment.



**Keywords:** faults identification, graphical user interface, software tools, usefulness of test vector components

19 Computing curricula 2001



September 2001 **Journal on Educational Resources in Computing (JERIC)**

**Publisher:** ACM Press



Full text available:  pdf(613.63 KB)  html (2.78 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

20 Software quality analysis and measurement service activity in the company

Takeshi Tanaka, Minoru Aizawa, Hideto Ogasawara, Atsushi Yamada

April 1998 **Proceedings of the 20th international conference on Software engineering**

**Publisher:** IEEE Computer Society

Full text available:  [pdf\(357.37 KB\)](#)  Additional Information: [full citation](#), [references](#), [index terms](#)  
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### 1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
**Publisher:** IBM Press

 Full text available: [pdf\(4.21 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

### 2 [Computing curricula 2001](#)


 September 2001 **Journal on Educational Resources in Computing (JERIC)**
**Publisher:** ACM Press

 Full text available: [pdf\(613.63 KB\)](#) [html \(2.78 KB\)](#)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

### 3 [Use of simulation to test client-server models](#)



Yogesh L. Deshpande, Roger Jenkins, Simon Taylor

 November 1996 **Proceedings of the 28th conference on Winter simulation**
**Publisher:** ACM Press

 Full text available: [pdf\(697.52 KB\)](#)

 Additional Information: [full citation](#), [references](#), [citations](#)





- 4 Engineering an "open" client/server-platform for a distributed Austrian alpine road-pricing system in 240 days: case study and experience report

Stefan Biffl, Thomas Grechenig, Stephan Oberpfalzer

May 1996 **Proceedings of the 18th international conference on Software engineering**

**Publisher:** IEEE Computer Society

Full text available:  [pdf\(1.20](#)

[MB\)](#) 


[Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The paper describes engineering a system for a distributed Austrian Alpine road-pricing environment as well as the structure and organization of the software development. The client/server-based road-pricing system, handling on average 1.2 million vehicle transitions per month, had to be operational within a mere eight months after the start of the project. Current practical and industrial problems of client/server system strategies are discussed. Our main theses derived from the presented case ...

**Keywords:** client/server software development, production-oriented systems development, road-pricing system

- 5 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems

 Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker

December 1996 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on**

**Model curriculum and guidelines for undergraduate degree programs in information systems IS '97, Volume 28 Issue 1**


**Publisher:** ACM Press

Full text available:  [pdf\(7.24](#)

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Additional Information: [full citation](#), [citations](#)

- 6 Introducing client/server technologies in information systems curricula

 Abhijit Chaudhury, H. Raghav Rao

September 1997 **ACM SIGMIS Database, Volume 28 Issue 4**

**Publisher:** ACM Press

Full text available:  [pdf\(1.02](#)

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Additional Information: [full citation](#), [abstract](#), [index terms](#)

One goal of information systems (IS) departments in business schools is to train IS professionals with the necessary technical skills to support the IS function in companies. This paper suggests that changes are needed for most current IS curricula to meet the technical requirements of the client/server (C/S) world of technologies. It is hoped that the ideas presented here will stimulate debate and discussions as to how this transition can be accomplished.

**Keywords:** client/server system, information systems education

- 7 The interactive performance of SLIM: a stateless, thin-client architecture

Brian K. Schmidt, Monica S. Lam, J. Duane Northcutt

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth**



# ACM symposium on Operating systems principles SOSP '99, Volume 33 Issue 5

**Publisher:** ACM Press

Full text available: [pdf\(1.79 MB\)](#)

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Taking the concept of thin clients to the limit, this paper proposes that desktop machines should just be simple, stateless I/O devices (display, keyboard, mouse, etc.) that access a shared pool of computational resources over a dedicated interconnection fabric --- much in the same way as a building's telephone services are accessed by a collection of handset devices. The stateless desktop design provides a useful mobility model in which users can transparently resume their work on any desktop c ...

## 8 [Client-server computing](#)



Alok Sinha

July 1992 **Communications of the ACM**, Volume 35 Issue 7

**Publisher:** ACM Press

Full text available: [pdf\(7.53 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

**Keywords:** client-server computing

## 9 [An Internet-based negotiation server for e-commerce](#)

Stanley Y.W. Su, Chunbo Huang, Joachim Hammer, Yihua Huang, Haifei Li, Liu Wang, Youzhong Liu, Charnyote Pluempitiwiriyaewej, Minsoo Lee, Herman Lam

August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1

**Publisher:** Springer-Verlag New York, Inc.

Full text available: [pdf\(355.19 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper describes the design and implementation of a replicable, Internet-based negotiation server for conducting bargaining-type negotiations between enterprises involved in e-commerce and e-business. Enterprises can be buyers and sellers of products/services or participants of a complex supply chain engaged in purchasing, planning, and scheduling. Multiple copies of our server can be installed to complement the services of Web servers. Each enterprise can install or select a trusted negotia ...

**Keywords:** Constraint evaluation, Cost- benefit analysis, Database, E-commerce, Negotiation policy and strategy, Negotiation protocol

## 10 [Unix RDBMS: the next generation what are the Unix relational-database vendors doing to survive in the next generation of client/server environments](#)




Bill Rosenblatt


December 1994 **ACM SIGMOD Record**, Volume 23 Issue 4

**Publisher:** ACM Press

Full text available: [pdf\(1.26](#)

[MB\)](#)Additional Information: [full citation](#), [index terms](#)**11** [Improving interactive performance using TIPME](#) Yasuhiro Endo, Margo Seltzer



June 2000 **ACM SIGMETRICS Performance Evaluation Review**, **Proceedings of the 2000 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '00**, Volume 28 Issue 1

**Publisher:** ACM PressFull text available:  [pdf\(1.05 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


On the vast majority of today's computers, the dominant form of computation is GUI-based user interaction. In such an environment, the user's perception is the final arbiter of performance. Human-factors research shows that a user's perception of performance is affected by unexpectedly long delays. However, most performance-tuning techniques currently rely on throughput-sensitive benchmarks. While these techniques improve the average performance of the system, they do littl ...

**Keywords:** interactive performance, monitoring**12** [Frameworks for component-based client/server computing](#) Scott M. Lewandowski

March 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 1


**Publisher:** ACM PressFull text available:  [pdf\(243.81 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**13** [Level II technical support in a distributed computing environment](#) Tim Leehane

September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services**


**Publisher:** ACM PressFull text available:  [pdf\(5.73 MB\)](#)Additional Information: [full citation](#), [references](#), [index terms](#)**14** [Composable ad hoc location-based services for heterogeneous mobile clients](#)

Todd D. Hodes, Randy H. Katz

October 1999 **Wireless Networks**, Volume 5 Issue 5

**Publisher:** Kluwer Academic PublishersFull text available:  [pdf\(403.18 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**15** [Adoption, diffusion, and infusion of IT: Organizational adoption and assimilation of complex technological innovations: development and application of a new framework](#)

 Michael J. Gallivan  
 July 2001 **ACM SIGMIS Database**, Volume 32 Issue 3  
**Publisher:** ACM Press


Full text available:  [pdf\(3.37 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper explores the applicability of traditional innovation adoption and diffusion models to contingent, authority innovation processes occurring within an organizational context (Zaltman, Duncan & Holbeck, 1973); that is, when employees in organizations adopt an innovation that has been chosen by an authority figure. This paper identifies existing gaps in traditional innovation adoption models and concludes that a new framework is required --- one that incorporates the unique processes and ...

**Keywords:** technology adoption, technology diffusion


**16** [Growing pains-----and successes-----in transforming the information systems organization for client/server development](#)


 William D. Nance  
 January 1995 **ACM SIGCPR Computer Personnel**, Volume 16 Issue 1  
**Publisher:** ACM Press

Full text available:  [pdf\(908.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Information systems (IS) groups are under increasing pressure to contribute to organizational performance and to support, or even drive, broad organizational transformation efforts through the successful exploitation of information technology (IT). Using a "sociocentric" model of organizational work, this paper analyzes the experiences of one company's IS group that recently embarked on a long-term, enterprise-wide client/server system development initiative designed to transform organizational ...


**17** [Growing pains in information systems: transforming the IS organization for client/server development](#)


 William D. Nance  
 April 1994 **Proceedings of the 1994 computer personnel research conference on Reinventing IS : managing information technology in changing organizations: managing information technology in changing organizations**  
**Publisher:** ACM Press

Full text available:  [pdf\(892.17 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


Information systems (IS) groups are under increasing pressure to contribute to organizational performance and to support, or even drive, broad organizational transformation efforts through the successful exploitation of information technology (IT). Using a "sociocentric" model of organizational work, this paper analyzes the experiences of one company's IS group that recently embarked on a long-term, enterprise-wide client/server system development initiative designed to transform ...

**18** [Rover: a toolkit for mobile information access](#)

 A. D. Joseph, A. F. de Lespinasse, J. A. Tauber, D. K. Gifford, M. F. Kaashoek  
 December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM**

**symposium on Operating systems principles SOSP '95, Volume 29 Issue 5****Publisher:** ACM PressFull text available:  [pdf\(2.18 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**19** [A decision support system for tuning Web servers in distributed object oriented network architectures](#)

R. D. van der Mei, W. K. Ehrlich, P. K. Reeser, J. P. Francisco


March 2000 **ACM SIGMETRICS Performance Evaluation Review**, Volume 27 Issue 4**Publisher:** ACM PressFull text available:  [pdf\(648.79 KB\)](#)Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Web technologies are currently being employed to provide end user interfaces in diverse computing environments. The core element of these Web solutions is a Web server that is based on the Hypertext Transfer Protocol (HTTP) running over TCP/IP. Web servers are required to respond to millions of transaction requests per day at an "acceptable" Quality of Service (QoS) level with respect to the end-to-end response time and the server throughput. In many applications, the server performs significant ...

**Keywords:** Decision Support System, HTTP, Web server, World Wide Web, architecture, computing, configuration tuning, distributed, httpd, object-oriented, performance

**20** [Data partitioning for disconnected client server databases](#)

Shirish Hemant Phatak, B. R. Badrinath

August 1999 **Proceedings of the 1st ACM international workshop on Data engineering for wireless and mobile access****Publisher:** ACM PressFull text available:  [pdf\(895.66 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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White, L.J.;  
Software Maintenance 1996, Proceedings., International Co.  
4-8 Nov. 1996 Page(s):350 - 358  
Digital Object Identifier 10.1109/ICSM.1996.565038  
AbstractPlus | Full Text: PDF(708 KB) IEEE CNF
- ☐ **2. Hierarchical GUI test case generation using automated p**  
Memon, A.M.; Pollack, M.E.; Soffa, M.L.;  
Software Engineering, IEEE Transactions on  
Volume 27, Issue 2, Feb. 2001 Page(s):144 - 155  
Digital Object Identifier 10.1109/32.908959  
AbstractPlus | References | Full Text: PDF(948 KB) IEEE
- ☐ **3. GUI testing: pitfalls and process**  
Memon, A.M.;  
Computer  
Volume 35, Issue 8, Aug. 2002 Page(s):87 - 88  
Digital Object Identifier 10.1109/MC.2002.1023795  
AbstractPlus | Full Text: PDF(230 KB) IEEE JNL
- ☐ **4. Diagnostic testing of circuit cards with robotic prober**  
Chimitch, J.; Dalton, A.M.;  
AUTOTESTCON '98. IEEE Systems Readiness Technology  
Conference., 1998 IEEE  
24-27 Aug. 1998 Page(s):353 - 359  
Digital Object Identifier 10.1109/AUTEST.1998.713468  
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AM Memon - portal.acm.org

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PC Jorgensen, C Erickson - Communications of the ACM, 1994 - portal.acm.org

... 2 Alford, M. SREM at the age of eight: The **distributed** computing design. ... 7 Jorgensen, PC The Craft of Software **Testing**, CRC Press, Boca Raton, Fla. ...Cited by 89 - [Web Search](#) - [portal.acm.org](#)**An automated testing environment for CTI systems using concepts for specification and verification ...**O Niese, T Margaria, A Hagerer, M Nagelmann, B ... - Annual Review of Communication, 2000 - [sunshine.cs.uni-dortmund.de](#)... Therefore, initialization is a **distributed** problem and, in general ... It is an environment for **automated** and integrated ... from the Test Coordinator's **GUI**, the test ...Cited by 11 - [Web Search](#) - [eti.informatik.uni-dortmund.de](#) - [ls5-www.cs.uni-dortmund.de](#) - [ls5-www.informatik.uni-dortmund.de](#) - [all 7 versions »](#)**Automated distributed system testing: designing an RTI verification system**

J Tufarolo, J Nielsen, S Symington, R Weatherly, A ... - WINTER SIMUL CONF PROC, 1999 - portal.acm.org

... to provide stimulus at multiple **distributed** points and ... Test Controller (Java/Swing **GUI**) ... **Automated** Distribution System **Testing**: Designing an RTI Verification ...Cited by 3 - [Web Search](#) - [ieeexplore.ieee.org](#) - [informs-sim.org](#) - [informs-cs.org](#) - [all 7 versions »](#)**Classic Testing Mistakes**B Marick, T Foundations - **Testing** Foundations, 1997 - [testing.com](#)... Testability problems are exacerbated in **distributed** systems like conventional ... **Testing**) participants said many interesting things about **automated GUI testing**. ...Cited by 12 - [Cached](#) - [Web Search](#) - [ing.puc.cl](#) - [visibleworkings.com](#) - [fatcaterpillar.org](#) - [all 8 versions »](#)**Testing of fault-tolerant and real-time distributed systems via protocol fault injection**S Dawson, F Jahanian, T Mitton, TL Tung - PROC ANNU INT CONF FAULT TOLERANT COMPUT, 1996 - [ieeexplore.ieee.org](#)

... Subsec- tion 3.2 describes how fault injection experiments are spec- ified

for **testing distributed** protocols with ORCHESTRA. 3.1 ...

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## DART: A framework for regression testing nightly/daily builds of GUI applications

AM Memon, I Banerjee, N Hashmi, A Nagarajan - Proceedings of the International Conference on Software ..., 2003 - [ieeexplore.ieee.org](http://ieeexplore.ieee.org)

... glected [24]. Consequently, there are no **automated** tools and efficient techniques for **GUI regression testing** [25]. Not being able ...

Cited by 5 - Web Search - doi.ieeecomputersociety.org - cs.umd.edu - portal.acm.org - all 7 versions »

## Scenario-Based Web Service Testing with Distributed Agents

WT Tsai, R Paul, L Yu, A Saimi, Z Cao - IEICE Transactions on Information and Systems, 2003 - [asusrl.eas.asu.edu](mailto:asusrl.eas.asu.edu)

... The Web Services **Testing** Framework (WSTF) uses the following ... specification, **automated** test script generation, monitoring, **automated distributed** test execution ...

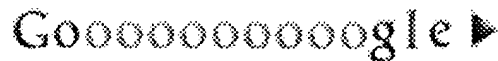
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## Making the Right Choice

E Hendrickson - Revista StqeMagazine, Maio/Junho, 1999 - [qualitytree.com](http://qualitytree.com)

... of a registry key from within your **automated** scripts. ... call this a “test map” or “GUI map” while ... **Distributed** tests If you are **testing** multi-user software ...

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L1	3	parallel\$2 same (network\$2 or distributed or (client and server) ) same ( (gui or ui or "user interface" ) near3 test\$3 ) and (execut\$3 near3 parallel\$2)	USPAT	OR	ON	2006/01/11 11:33
L2	2	714/38.ccls. and parallel\$2 same (network\$2 or distributed or (client and server) ) same ( (gui or ui or "user interface" ) near3 test\$3 )	USPAT	OR	ON	2006/01/11 11:36
L3	0	714/46.ccls. and parallel\$2 same (network\$2 or distributed or (client and server) ) same ( (gui or ui or "user interface" ) near3 test\$3 )	USPAT	OR	ON	2006/01/11 11:34
L4	30	714/46.ccls. and parallel\$2 same (network\$2 or distributed or (client and server) )	USPAT	OR	ON	2006/01/11 11:34
L5	22	717/125.ccls. and parallel\$2 same (network\$2 or distributed or (client and server) )	USPAT	OR	ON	2006/01/11 11:35
L6	31	717/127.ccls. and parallel\$2 same (network\$2 or distributed or (client and server) )	USPAT	OR	ON	2006/01/11 11:35
S1	4	("5371883" "6067639").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/08/09 11:39
S2	39	"5371883".URPN.	USPAT	OR	OFF	2004/08/09 11:41
S3	33	"5371883".URPN. AND (COTS OR COMMERCIAL OR SCRIPT\$3 OR WEB OR CONSOLIDAT\$3 OR PLATFORM OR REAL-TIME OR PRIORIT\$3 OR RULE OR THRESHOLD OR MINIM\$2 OR REBOOT OR STARTUP OR START-UP OR BOOT )	USPAT	OR	ON	2004/08/09 12:46
S4	34	"5371883".URPN. AND (COTS OR COMMERCIAL OR SCRIPT\$3 OR WEB OR CONSOLIDAT\$3 OR PLATFORM OR REAL-TIME OR PRIORIT\$3 OR RULE OR THRESHOLD OR MINIM\$2 OR REBOOT OR STARTUP OR START-UP OR BOOT or gui or (user adj interface) or (graphical adj interface) )	USPAT	OR	ON	2004/08/09 13:10

S5	1400	(simulat\$3 or emulat\$3 or test\$3 or diagnotsic or diagnos\$3) near3 (gui or (user adj interface) or (graphical adj interface) )	USPAT	OR	ON	2004/08/09 13:09
S6	166	(simulat\$3 or emulat\$3 or test\$3 or diagnotsic or diagnos\$3) adj (gui or (user adj interface) or (graphical adj interface) )	USPAT	OR	ON	2004/08/09 13:09
S7	63	test\$3 adj (gui or (user adj interface) or (graphical adj interface) )	USPAT	OR	ON	2004/08/09 13:09
S8	1580617	(COTS OR COMMERCIAL OR SCRIPT\$3 OR WEB OR CONSOLIDAT\$3 OR PLATFORM OR REAL-TIME OR PRIORIT\$3 OR RULE OR THRESHOLD OR MINIM\$2 OR REBOOT OR STARTUP OR START-UP OR BOOT or gui or (user adj interface) or (graphical adj interface) )	USPAT	OR	ON	2004/08/09 13:13
S9	63	( test\$3 adj (gui or (user adj interface) or (graphical adj interface) ) ) and ((COTS OR COMMERCIAL OR SCRIPT\$3 OR WEB OR CONSOLIDAT\$3 OR PLATFORM OR REAL-TIME OR PRIORIT\$3 OR RULE OR THRESHOLD OR MINIM\$2 OR REBOOT OR STARTUP OR START-UP OR BOOT or gui or (user adj interface) or (graphical adj interface) ) )	USPAT	OR	ON	2004/08/09 15:32
S10	0	"6622298".URPN.	USPAT	OR	OFF	2004/08/09 14:31
S11	11	("5513315"   "5548718"   "5758062"   "5819066"   "5905856"   "6002869"   "6028999"   "6067639"   "6151686"   "6345322"   "6418543").PN.	USPAT	OR	OFF	2004/08/09 14:31
S12	14	"5790117".URPN.	USPAT	OR	OFF	2004/08/09 15:21
S13	0	395/183.ccls.	USPAT	OR	ON	2004/08/09 15:33
S14	0	395/575.ccls.	USPAT	OR	ON	2004/08/09 15:33
S15	0	395/???ccls.	USPAT	OR	ON	2004/08/09 15:33
S16	229	345/762.ccls.	USPAT	OR	ON	2004/08/09 16:15
S17	247	717/124.ccls.	USPAT	OR	ON	2004/08/09 16:15
S18	189	717/168.ccls.	USPAT	OR	ON	2004/08/09 16:15
S19	22	"5781720".URPN.	USPAT	OR	OFF	2004/08/09 16:20

S20	48	(COTS OR (COMMERCIAL3 near3 shelf ) and (test\$3 near2 component)	USPAT	OR	ON	2004/08/10 07:27
S21	9	(COTS OR (COMMERCIAL3 near3 shelf ) and (test\$3 adj component)	USPAT	OR	ON	2004/08/10 07:32
S22	1	("6405364"   "2003/0028856"). PN.	USPAT	OR	OFF	2004/08/10 07:30
S23	31183	(distributed or network\$3 or client-server) same (test\$3 )	USPAT	OR	ON	2004/08/10 07:34
S24	33066	(distributed or network\$3 or client-server) same (test\$3 near3 gui )	USPAT	OR	ON	2004/08/10 07:34
S25	21	(distributed or network\$3 or client-server) same (test\$3 near3 gui )	USPAT	OR	ON	2004/08/10 08:02
S26	381	714/46.ccls.	USPAT	OR	ON	2004/08/10 08:02
S27	4	("5359546" "6401220" "5371883" "6471794").pn.	USPAT	OR	ON	2004/08/19 07:35
S28	4	("5359546" "6401220" "5371883" "6182245").pn.	USPAT	OR	ON	2004/08/19 07:51
S29	4	("5359546" "6401220" "5371883" "6182245").pn.	USPAT	OR	ON	2004/08/19 08:09
S30	3828	(717/124.ccls. or 714/???.ccls. ) and (test\$3 or diagnostic or diagnos\$3) and (queue\$3 or threshold or minimum or reboot\$3 or re-boot\$3 )	USPAT	OR	ON	2004/08/19 08:14
S31	1951	(717/124.ccls. or 714/???.ccls. ) and (test\$3 or diagnostic or diagnos\$3) same (queue\$3 or threshold or minimum or reboot\$3 or re-boot\$3 )	USPAT	OR	ON	2004/08/19 08:14
S32	1	(717/124.ccls. or 714/???.ccls. ) and (test\$3 or diagnos\$3) same (queue\$3 and ( threshold or minimum ) and (reboot\$3 or re-boot\$3 ) )	USPAT	OR	ON	2004/08/19 08:16
S33	68	(717/124.ccls. or 714/???.ccls. ) and (test\$3 or diagnos\$3) near5 (gui or interface) same (queue\$3 or ( threshold or minimum ) or (reboot\$3 or re-boot\$3 ) )	USPAT	OR	ON	2004/08/19 08:17
S34	2	(717/124.ccls. or 714/???.ccls. ) and (test\$3 or diagnos\$3) near5 (gui or interface) same (queue\$3 or ( threshold or minimum )) and (reboot\$3 or re-boot\$3 )	USPAT	OR	ON	2004/08/19 08:17

S35	1	(717/124.ccls. or 714/???ccls. ) and (test\$3 or diagnos\$3) near5 (gui or interface) same (reboot\$3 or re-boot\$3 )	USPAT	OR	ON	2004/08/19 08:20
S36	28	(717/124.ccls. or 714/???ccls. ) and (test\$3 or diagnos\$3) same (reboot\$3 or re-boot\$3 )	USPAT	OR	ON	2004/08/19 08:26
S37	18	(717/???ccls. or 714/???ccls. ) and (test\$3 or diagnos\$3) same (reboot\$3 or re-boot\$3 ) near5 ( computer or client or target)	USPAT	OR	ON	2004/08/19 09:36
S38	2	( "6775824" "5819092").pn.	USPAT	OR	ON	2004/08/19 09:43
S39	2	( "6775824" "5819092").pn. and (test\$3 and ( web or display or html or page) )	USPAT	OR	ON	2004/08/19 09:44
S40	99	test\$3 near3 (queue\$3 or sequenc\$3 or list\$3) same (plurality or "one or more" ) same (distributed or network\$3)	USPAT	OR	ON	2005/04/27 16:38
S41	29	test\$3 near3 (queue\$3 or sequenc\$3 or list\$3) same (plurality or "one or more" ) same (distributed or network\$3) and ((client and server) or (host and target) or (master and slave) )	USPAT	OR	ON	2005/04/27 16:59
S42	2	("5600789" "6766481").pn.	USPAT	OR	ON	2005/04/27 16:59
S43	453	(various or combination) near5 ( client and server) or (target and host) )	USPAT	OR	ON	2005/07/20 10:19
S44	819	(various or combination) near5 ( client and server) or (target and host) or (master and slave) )	USPAT	OR	ON	2005/07/20 10:20
S45	9	(various or combination) near5 ( client and server) or (target and host) or (master and slave) ) and "test queue"	USPAT	OR	ON	2005/07/20 10:22
S46	293644	(client or target or slave) near3 "coupled to " (server or host or master)	USPAT	OR	ON	2005/07/20 10:22
S47	0	(client or target or slave) near3 "coupled to " near3 (server or host or master)	USPAT	OR	ON	2005/07/20 10:23
S48	2750	(client or target or slave) near3 ("one or more" or plurality) near3 (server or host or master) )	USPAT	OR	ON	2005/07/20 10:24
S49	85	(client or target or slave) near3 ("one or more" or plurality) near3 (server or host or master) ) and (test\$3 near3 execut\$3 )	USPAT	OR	ON	2005/07/20 10:24

S50	12	(client or target or slave) near3 (("one or more" or plurality) near3 (server or host or master) ) and (test\$3 near3 execut\$3 ) and (("centralized" or buffer\$2 or queue or list\$3 ) near3 test\$3)	USPAT	OR	ON	2005/07/20 10:25
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